



# BBB Tank Services, Inc.

AST Services and New API Tanks

June 27, 2013

LAZARUS Energy (BLUE DOLPHIN)  
801 Travis Street  
Suite 2100  
Houston, Texas 77002  
Attention Mr. Steve Wilson

Reference-	Proposal-	Tank Bottom and Cone Roof Replacement	TANK 16
	Location	Ingleside, Texas	
	Description	(1) 100'-0" Diameter x 40'-0" High Cone Roof Tank w/Aluminum Internal Floating Roof	
	BBB Proposal-	N13-511 REVISION 5	

Revision 1- Added demolish the existing floating roof  
Added a new Aluminum IFR  
Removing Insulation for roof and bottom work.

Revision 2- Delete Tank Bottom Replacement.

Revision 3- a. The tank diameter is 100'-0 feet in lieu of 98'-0 as previously stated.  
b. The tank bottom will not be replaced. Nine (9) spot welds/12" patch plates is all that is required.  
c. Add a 3 x 3 x 3/16 angle cap on the shell where the shell insulation will have been removed from the top shell course to preserve the balance of the shell insulation. The insulation will not be replaced on the top shell course.  
d. Add a 24" API-650 Shell Manway (Mixer Manway) Add gussets to reinforce the manway. (The Mixer is by others).

Revision 4- Delete the Aluminum internal floating roof.  
Delete the Mixer Manway.  
Include the removal and replacement of the roof support structure in the proposal.  
Include the removal and replacement of the spiral stairway, top platform and (2) 10'-0 roof handrails.

Revision 5- Break out roof replacement, top angle replacement and roof support structure replacement.

As per the instructions to bidder and API-653 latest standards we propose to furnish labor, materials and equipment to complete the following scope of work.

1. Mobilize.
2. Conduct a site specific safety meeting to discuss safety issues involved with this project and the site rules, regulations for contractors and safety rules.
3. A jobsite JHA will be prepared by the BBB Foreman and his crew and preferably with the owner's representative, pointing out the possible hazards they will face in completing this task and remedies or safety steps to eliminate or limit those hazards
4. Receive and unload materials and equipment.
5. **REVISION 3-** A. Remove insulation on the 1<sup>st</sup> shell course where the mixer manway is to be installed/one foot of insulation around the tank bottom and where the door sheet will be for new bottom installation.  
B. Remove 6'-0 of insulation from the top shell course so the tank roof can be replaced.  
C. Place insulation in plastic garbage bags for disposal by others.  
D. Add a 3 x 3 x 3/16 angle cap on the shell where the shell insulation will have been removed from the top shell course to preserve the balance of the shell insulation. The insulation will not be replaced on the top shell course.

BASE BID

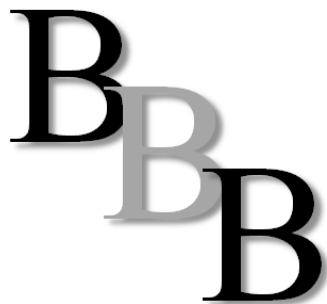
Insulation Removal

Labor and Equipment  
Sales tax  
Duration

\$ (b) (4)  
\$  
1-2 weeks.



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# BBB Tank Services, Inc.

## AST Services and New API Tanks

Page 2 of BBB Proposal N13-511

REVISION 5

6. Repair the nine areas requiring repairs in the tank bottom. Nine 12"x12"x1/4" thick patch plates are included for this task. The corners of the patch plates will be rounded and they will be vacuum box tested after installation.

Price	<b>BOTTOM PATCH PLATES</b>	\$ (b) (4)
	<b>Add sales tax</b>	
	<b>Total</b>	\$ [REDACTED]
	<b>Duration</b>	1 Day

**NOTE: This price is good only if done in conjunction with the other tasks in this estimate.**

7. Reinstall the door sheet after repairs are made.
8. Broom clean the tank.
9. Tests include:
  - b. Vacuum box testing of the new bottom weld seams.
  - c. X-ray of the door sheet as per API-653.
  - d. Visually check all of our work.
  - e. Hydrotest the tank is by others, if required.
9. Clean up work site.
10. Demobilize.

### **FIXED CONE ROOF REPLACEMENT (REVISION 5)**

1. Mobilize to the tank site.
2. Conduct a site specific safety meeting discussing the hazards and possible hazards that are involved with completing this task Prior to starting the job.
3. Unload materials and equipment.
4. Scaffold the tank shell with Tank Builders type scaffolding.
5. Remove and replace existing roof skin with 3/16" A-36 material. Price includes a lap weld on the top side only.
6. All roof nozzles and Manways are to be new.  
Including- (1) 24" roof hatch.
  - (1) 8" 150# roof nozzle with 8" Gauge Hatch.
  - (1) 2" 150# roof nozzle.
  - (1) 12" Fixed roof center vent.
7. Scrap metal is to be loaded into an owner furnished bin for disposal by others.
8. Includes hot work to demolish the existing roof skin and install new roof skin.
9. Project is based on a non-permit required confined space.
10. Our price is based on no matting around tank for crane settlement.
11. Our price is based on there being no lead or asbestos on the tank roof.
12. No shell repad or nozzle work is included.
13. Price is based on working 5 days a week using Saturday as a makeup day.

**REVISION 5      100'-0 diameter fixed roof replacement**

<b>BASE BID</b>	<b>Materials/Fabrication/Freight/Consumables</b>	\$ (b) (4)
	<b>Equipment/Fuel</b>	
	<b>Labor</b>	
	<b>Total</b>	\$ [REDACTED]
	<b>Duration of project is 3-4 weeks</b>	



# BBB Tank Services, Inc.

## AST Services and New API Tanks

Page 3 of BBB Proposal N13-511

REVISION 5

14. **REVISION 5-** Remove and replace the top angle. Add \$ (b) (4)  
Duration 3 field working days
15. **REVISION 5-** Remove and replace the roof support structure with a BBB Tank Services standard structure. Add \$ (b) (4)  
Duration 3 Weeks
16. Remove and replace the double stringer spiral stairway, top platform and (2) 10'-0 long roof handrails. (Galvanized).

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### New Stairway, Platform and Handrail

<b>BASE BID</b>	<b>Materials/Fabrication/Freight/Consumables</b>	<b>\$(b) (4)</b>
	<b>Equipment/Fuel</b>	
	<b>Labor</b>	
	<b>Total</b>	

Duration of project is 4-5 (Includes drawings and fabrication. Field erection is 3-4 days).

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Alternate - Add \$ 4,750.00 for a Gauging Systems Liquid Level Indicator to the tank including new piping, pipe clips and associated items.

### Terms and Conditions

1. Sales and/or Use Tax is not included in our proposal. Add 8.25% to our base bid items if sales tax is to be accrued and paid by BBB Tank Services, Inc.
2. Our price does not include a dedicated fire, hole, bottle or safety watch. If required this is to be furnished by the owner or furnished by BBB at \$(b) (4) per day- one day minimum for each required. BBB only includes a fire/combination hole watch until the door sheet is cut and for when it has been reinstalled.
3. Supplied air or working in supplied air is not included in this proposal.
4. Lead or asbestos abatement is not included.
5. Surface preparation or painting is not included.
6. BBB will bill upon let of contract for materials/fabrication/Engineering and freight, then bill twice monthly until the end of the project.
7. Payment is net 10 days upon invoice date.
8. Prices are good for 30 days.
9. SPECIAL NOTE: Some prices in this estimate are not "stand alone" pricing. Mobilization/demobilization/set up and other items are in the roof replacement pricing.
10. SPECIAL NOTE: The prices given are not to exceed numbers. However, there may be some discovery items that could affect the prices, and, if so, they will be immediately pointed out to the LAZARUS jobsite representative prior to addressing them.

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Thank you for the opportunity to quote this project. Hopefully we will be the successful bidder and we will have the opportunity to work with you on this project.

Sincerely,  
BBB Tank Services, Inc.

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Robert E. Swain  
Project Manager